

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer readable medium having computer executable program code embodied thereon for performing the following act for authoring of rules:

composing a rule such that the rule can be decomposed into a subset of instructions that are processed asynchronously to facilitate at least one of testing assertions, enforcing constraints using runtime information, making inferences, performing correlation, or communicating results of dynamic tests to other components, the rule executed concurrently with one or more disparate rules.

2. (Original) The product of claim 1, at least one of the statements facilitates activating the rule for processing.

3. (Previously Presented) The product of claim 1, at least one of the statements facilitates activating the rule according to least one of periodically or on detection of an event.

4. (Original) The product of claim 1, one or more of the statements facilitates performing a continuous polling loop.

5. (Original) The product of claim 4, the polling loop is performed according to a polling interval such that the polling loop executes and then waits for the polling interval to expire before executing a next polling loop.

6. (Previously Presented) The product of claim 4, the polling loop is facilitated according to a keyword that includes at least one of a variable, an object, or a constant.

7. (Original) The product of claim 1, the rule executes concurrently with another rule.

8. (Previously Presented) The product of claim 1, at least one of the statements facilitate creating at least one of an implicit task or an explicit task, wherein the explicit task is created by explicitly specifying a keyword and an explicit task object, and the implicit task is created when a startup attribute is used on the rule .
9. (Previously Presented) The product of claim 8, at least one of the statements facilitates explicit task declaration of the explicit task object for the explicit task, and use of a statement that launches concurrent execution of the rule.
10. (Previously Presented) The product of claim 1, at least one of the statements facilitates creating a task using one of a startup attribute or a signaling attribute.
11. (Original) The product of claim 1, at least one of the statements facilitates allowing the rule to invoke another rule.
12. (Original) The product of claim 1, at least one of the statements facilitates separating rule logic data from rule configuration data using at least one parameter.
13. (Previously Presented) The product of claim 12, the at least one parameter is passed by one of a value or by reference.
14. (Previously Presented) The product of claim 1, the rule is an independent rule authored using at least one of an infinite loop or an event-driven callback.
15. (Original) The product of claim 14, the event-driven callback facilitates asynchronous delivery of a data item from a URI-based source.
16. (Original) The product of claim 1, the rule is subscribed to reveal events at one time.

17. (Previously Presented) The product of claim 1, at least one of the statements facilitates collecting at least two data items concurrently, when the at least two data items become available.
18. (Original) The computer readable medium of claim 1, embodied within a device.
19. (Original) The product of claim 1, one or more of the statements facilitates at least one of automated rule instantiation based on XML, built-in polling without threading or concurrency considerations, and automated logging of rule instance information in alerts.
20. (Currently Amended) A computer readable medium having computer executable program code embodied thereon for providing a method that performs the act of authoring rules for asynchronous concurrent processing, the method comprising, composing a rule of one or more statements that facilitate decomposing the rule into a subset of instructions that are processed at least one of asynchronously or out-of-order, the rules processed to perform at least one of testing assertions, enforcing constraints using runtime information, making inferences, performing correlation, or communicating results of dynamic tests to other components.
21. (Previously Presented) The method of claim 20, further comprising extension of the rule with constructs without modifying the rule, the extension is performed by one of,
extending the rule to allow an alternate test before allowing the rule to fail;
constraining the rule to make the test more stringent; or
hooking the rule.
22. (Original) The method of claim 20, further comprising forwarding a log event to a supervisor in accordance with the one or more statements of the rule.
23. (Original) The method of claim 20, further comprising forwarding a log event using a function in accordance with the one or more statements of the rule, the log event forwarded to a supervisor that deployed the rule from which the function is called.

24. (Original) The method of claim 20, further comprising forwarding an alert using a function in accordance with the one or more statements of the rule, the alert forwarded to a supervisor that deployed the rule from which the function is called.
25. (Original) The method of claim 20, further comprising,
consolidating a plurality of events; and
reporting a consolidated event summary based on the consolidated events according to a predetermined time interval.
26. (Original) The method of claim 20, further comprising monitoring system hardware and software resources in accordance with the one or more statements of the rule.
27. (Currently Amended) A computer readable medium having computer executable program code embodied thereon for providing a method of authoring rules for concurrent ~~asynchronous~~ processing, the method comprising, composing a rule of one or more statements that facilitate decomposing the rule into a subset of instructions that are independently scheduled for out-of order execution representative of an infinite loop, the rules processed to perform at least one of testing assertions, enforcing constraints using runtime information, making inferences, performing correlation, or communicating results of dynamic tests to other components.